

(1) [3 points] Determine the equation of the line with slope 5 containing the point $(-4, 1)$.

(2) [3 points] Determine the equation of the line passing through the points $(-1, 3)$ and $(1, 1)$.

(3) [4 points] Determine the slope and y -intercept of the line $\frac{1}{2}y = x - 1$. Graph the line.

(4) [5 points] The average cost of a home in 2004 was \$120,000 while in 2007 it was \$150,000. Determine an equation relating y , the average cost of a home, to the year x .